

10821642

11/27/05

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NEWS 4 OCT 03 MATHDI removed from STN
NEWS 5 OCT 04 CA/Capplus-Canadian Intellectual Property Office (CIPO) added
to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
of Capplus documents for use in third-party analysis and
visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/Capplus - Expanded coverage of German academic research

NEWS EXPRESS NOVEMBER 18 CURRENT VERSION FOR WINDOWS IS V8.01,
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AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:18:54 ON 29 NOV 2005

=> file reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

10821642

11/27/05

FULL ESTIMATED COST

0.21

0.21

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STRUCTURE FILE UPDATES: 28 NOV 2005 HIGHEST RN 868827-82-1
DICTIONARY FILE UPDATES: 28 NOV 2005 HIGHEST RN 868827-82-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

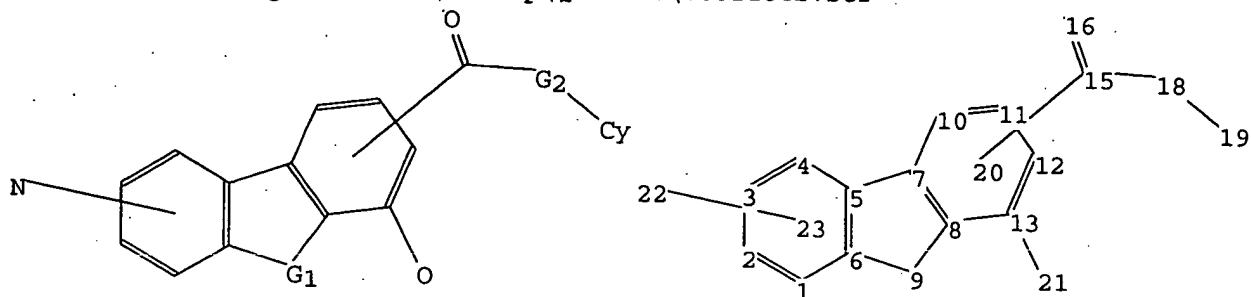
Structure search iteration limits have been increased. See HELP SLIMITS
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10821642.str



chain nodes :
15 16 18 19 21 22

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ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

13-21 15-16 15-18 18-19

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13

exact/norm bonds :

5-7 6-9 8-9 13-21 15-16 15-18 18-19

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-10 8-13 10-11 11-12 12-13

G1:O,S,N

G2:S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 15:CLASS 16:CLASS 18:CLASS 19:Atom 20:CLASS

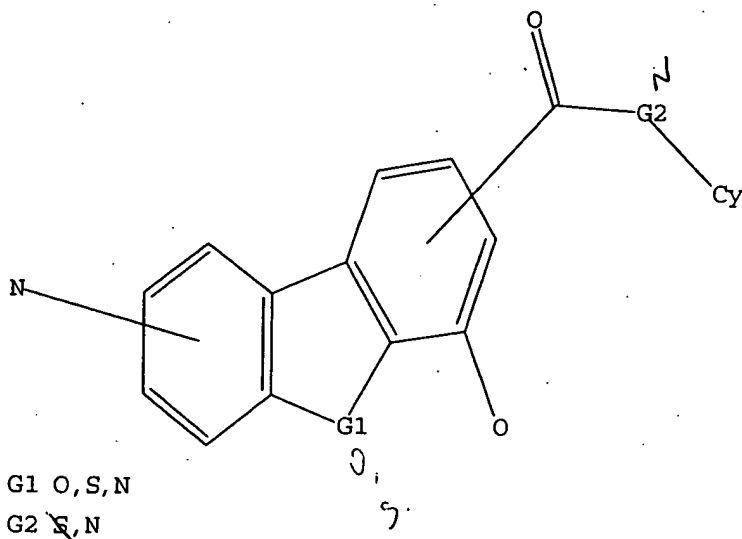
21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:19:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1311 TO ITERATE

100.0% PROCESSED 1311 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 24048 TO 28392
PROJECTED ANSWERS: 5 TO 234

L2 5 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 11:19:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 26373 TO ITERATE

100.0% PROCESSED 26373 ITERATIONS
SEARCH TIME: 00.00.03

75 ANSWERS

L3 75 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
161.33	161.54

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:19:46 ON 29 NOV 2005
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FILE COVERS 1907 - 29 Nov 2005 VOL 143 ISS 23
FILE LAST UPDATED: 28 Nov 2005 (20051128/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s l3

L4 3 L3

=> d ibib abs hitstr tot

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11/27/05

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

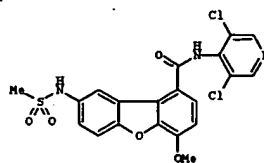
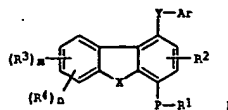
ACCESSION NUMBER: 2005:99226 CAPLUS
DOCUMENT NUMBER: 142:197859
TITLE: Preparation of dibenzo[b,f]furan-1-carboxamides,
SH-carbazole-4-carboxamides, and dibenzo[b,d]thiophene-
4-carboxamides as PDE4 inhibitors for the treatment of
inflammatory and allergic disorders

INVENTOR(S): Gopalan, Balasubramanian; Gharat, Laxmikant A.;
Lakshmi, Afsh D.; Karunakaran, Usha
PATENT ASSIGNEE(S): Glenmark Pharmaceuticals, Inc. USA, USA
SOURCE: U.S. Pat. Appl. Publ., 59 pp., Cont.-in-part of Appl.
No. PCT/IB04/000355.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
US 2005027129 A1 20050203 US 2004-821642 20040409
WO 2004089910 A1 200411021 WO 2004-18355 20040211
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
KW: BW, GE, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI,
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TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
PRIORITARY APPL. INFO.: IN 2003-MU363 A 20030411
US 2003-519967P P 20031113
WO 2004-18355 A2 20040211
OTHER SOURCE(S): MARPAT 142:197859
GI

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

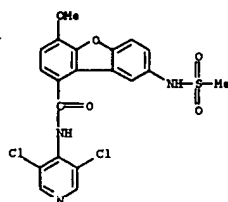


AB Title heterocyclic tricycles I [wherein R1-R3, R5, R6, Ra = independently H, (un)substituted (cyclo)alkyl, (cyclo)alkenyl, alkynyl, (hetero)aryl, heterocyclyl(alkyl), etc.; R4 = NR5R6 (R5, R6 = H, alkyl, cycloalkyl, etc.), heterocyclyl; Ar = (un)substituted aryl(alkyl), heterocyclyl, heteroaryl; X = O, SOO-2, NRa; Y = CONR7, NR7SOO-2, SOO-2NR7, NR7CO; R7 = H, OH, ORa, (un)substituted alkyl, aryl, heterocyclyl; P = O, S; m = 0-3; n = 1-4; Ra = H, alkyl, cycloalkyl, etc.; and tautomers, regioisomers, stereoisomers, enantiomers, diastereomers, polymorphs, N-oxides, pharmaceutically acceptable salts, solvates, and compns. thereof] were prepared as phosphodiesterase type 4 (PDE4) inhibitors. For example, N-(3,5-dichloropyridin-4-yl)-4-methoxy-8-aminodibenzo[b,f]furan-1-carboxamide (prepared in six steps from isovanillin, 4-fluoronitrobenzene, and 4-amino-3,5-dichloropyridine) was coupled with methanesulfonyl chloride in THF and pyridine to give the sulfonamide II. The latter inhibited the PDE4-induced conversion of [3H] cAMP to the corresponding [3H] 5'-AMP with IC50 of 0.5058 nM. Thus, I and their pharmaceutical compns. are useful for the treatment of immune disorders, inflammatory conditions, allergic conditions, CNS diseases, and insulin resistant diabetes (no data).

IT 778576-34-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(methylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-37-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-41-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(hydroxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-42-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(ethoxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-49-1P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(phenoxycarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-54-8P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(N-methylpiperazin-4-yl)carbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-62-8P, N-(3,5-Dichloropyridin-4-yl)-4-

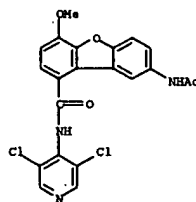
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
difluoromethoxy-8-[(methylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-66-2P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-69-5P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-[(ethoxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-70-8P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-[(hydroxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-72-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-[[[fur-2-yl]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-90-2P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[[(2-ethoxy-2-oxoethyl)amino]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-92-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(2-ethoxy-2-oxoethylamino)dibenzo[b,d]furan-1-carboxamide
RL: PAC (Pharmacological activity); RCT (Reactant); SYN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(PDE4 inhibitors; prepn. of tricyclic heterocycles as PDE4 inhibitors for treatment of immune and inflammatory disorders and insulin resistant diabetes)

RN 778576-34-4 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

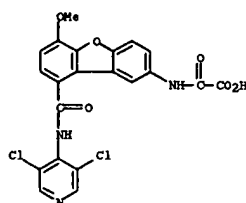


RN 778576-37-7 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

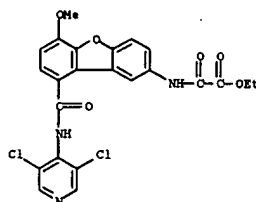
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



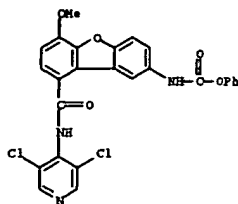
RN 778576-41-3 CAPLUS
CN Acetic acid, [[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuran]amino]oxo- (9CI) (CA INDEX NAME)



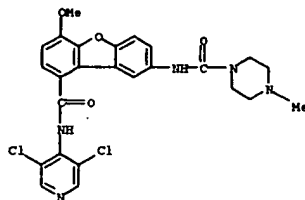
RN 778576-42-4 CAPLUS
CN Acetic acid, [[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuran]amino]oxo-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 778576-49-1 CAPLUS
 CN Carbamic acid, [9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, phenyl ester (9CI) (CA INDEX NAME)

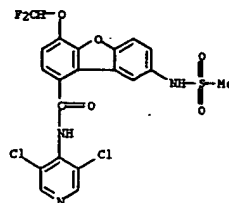


RN 778576-54-8 CAPLUS
 CN 1-Piperazinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-4-methyl- (9CI) (CA INDEX NAME)

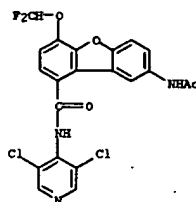


RN 778576-62-8 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

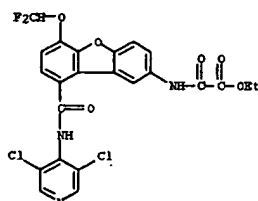


RN 778576-66-2 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)

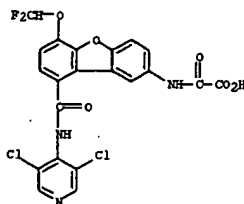


RN 778576-69-5 CAPLUS
 CN Acetic acid, [[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-(difluoromethoxy)-2-dibenzofuranyl]amino]oxo-, ethyl ester (9CI) (CA INDEX NAME)

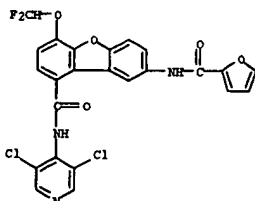
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-70-8 CAPLUS
 CN Acetic acid, [[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-(difluoromethoxy)-2-dibenzofuranyl]amino]oxo- (9CI) (CA INDEX NAME)

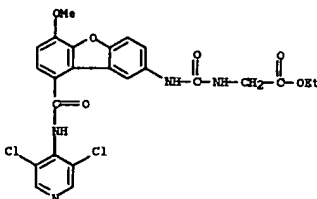


RN 778576-72-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(2-furanylcarbonyl)amino]- (9CI) (CA INDEX NAME)

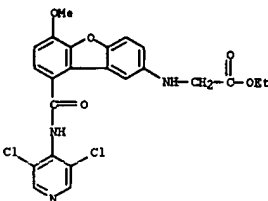


L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-90-2 CAPLUS
 CN Glycine, N-[[[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



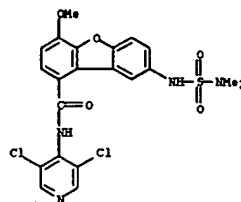
RN 778576-92-4 CAPLUS
 CN Glycine, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, ethyl ester (9CI) (CA INDEX NAME)



IT 778576-35-5P 778576-36-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(ethylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-38-8P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[[3-chloropropyl]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-39-9P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[[ethylcarbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-40-2P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(tert-butylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-43-5P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(hydroxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide sodium salt 778576-44-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[[fur-2-yl]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-45-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(cyclopropylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-46-8P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[bis(cyclopropylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-47-9P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[ethoxycarbonyl]amino]dibenzo[b,d]furan-1-carboxamide

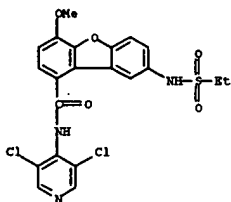
14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
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 778576-50-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(cyclopropylmethoxycarbonyl)amino]dibenzo[b,d]furan-1-carboxamide
 778576-51-5P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(trifluoromethyl)amino]dibenzo[b,d]furan-1-carboxamide
 778576-52-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(diethylamino)carbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-53-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(cyclopentylaminocarbonyl)amino]dibenzo[b,d]furan-1-carboxamide
 778576-55-9P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[N-
 methylpiperidin-4-yl]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 hydrochloride 778576-56-0P, N-(3,5-Dichloropyridin-4-yl)-4-
 methoxy-8-[[4-hydroxypiperidin-1-yl]carbonyl]amino]dibenzo[b,d]furan-1-
 carboxamide 778576-57-1P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-
 8-[[morpholin-4-yl]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-58-2P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(isopropylaminocarbonyl)amino]dibenzo[b,d]furan-1-carboxamide
 778576-59-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(hexylaminocarbonyl)amino]dibenzo[b,d]furan-1-carboxamide
 778576-60-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
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 [(methylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide sodium salt
 778576-64-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-
 [(ethylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-65-1P
 N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-
 [(dimethylamino)sulfonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-67-3P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-
 [(1-chloropropyl)carbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-68-4P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-
 [(cyclopropylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide
 778576-71-9P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-
 [(hydroxycarbonyl)amino]dibenzo[b,d]furan-1-carboxamide disodium
 salt 778576-73-1P, N-Phenyl-4-methoxy-8-
 acetamidodibenzo[b,d]furan-1-carboxamide 778576-77-5P,
 N-(4-Methoxyphenyl)-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide
 778576-83-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(ethylamino)thiocarbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-84-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-
 [(butylamino)thiocarbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-85-5P, N-(Pyridin-3-yl)-4-methoxy-8-
 acetamidodibenzo[b,d]furan-1-carboxamide 778576-87-7P
 778576-88-8P 778576-89-9P, N-(Pyridin-4-yl)-4-methoxy-8-
 acetamidodibenzo[b,d]furan-1-carboxamide 778576-91-3P,
 N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[2-hydroxy-2-
 oxoethyl]amino]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide
 778576-93-5P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-(2-hydroxy-
 2-oxoethylamino)dibenzo[b,d]furan-1-carboxamide 778576-94-6P,
 N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-acetamido-5H-carbazole-4-
 carboxamide 778576-95-7P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-
 9-methyl-6-[(methylsulfonyl)amino]-5H-carbazole-4-carboxamide
 778576-96-8P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-

14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 [(ethylsulfonyl)amino]-5H-carbazole-4-carboxamide 778576-97-9P,
 N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-propionamido-5H-
 carbazole-4-carboxamide 778576-98-0P, N-(3,5-Dichloropyridin-4-
 yl)-4-difluoromethoxy-8-[(methylsulfonyl)amino]dibenzo[b,d]furan-1-
 carboxamide disodium salt 778576-99-1P 778577-06-3P,
 N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-
 acetamidodibenzo[b,d]furan-1-carboxamide sodium salt 778577-07-4P
 N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-[[fur-2-
 yl]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide sodium salt
 778581-69-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USHS
 (Uses)
 (PDE4 inhibitor; prepn. of tricyclic heterocycles as PDE4 inhibitors
 for treatment of immune and inflammatory disorders and insulin
 resistant diabetes)
 RN 778576-35-5 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-
 [(dimethylamino)sulfonyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)

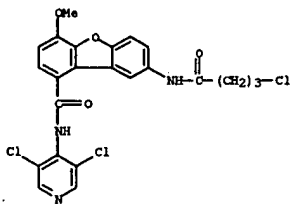


RN 778576-36-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-
 [(ethylsulfonyl)amino]-4-methoxy- (9CI) (CA INDEX NAME)

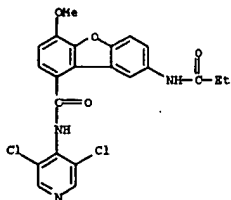
14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-38-8 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-[(4-chloro-1-oxobutyl)amino]-N-(3,5-dichloro-
 4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

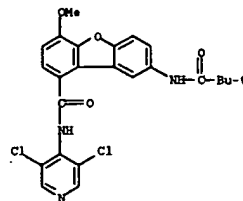


RN 778576-39-9 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[[2-
 oxopropyl]amino]- (9CI) (CA INDEX NAME)

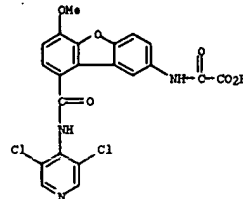


14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-40-2 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[(2,2-dimethyl-1-
 oxopropyl)amino]-4-methoxy- (9CI) (CA INDEX NAME)



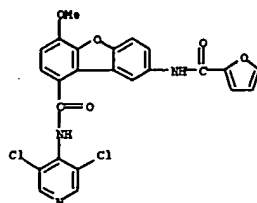
RN 778576-43-5 CAPLUS
 CN Acetic acid, [[9-[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-
 dibenzofuranyl]amino]oxo-, monosodium salt (9CI) (CA INDEX NAME)



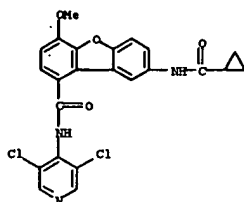
• Na

RN 778576-44-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[(2-
 furanylcarbonyl)amino]-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

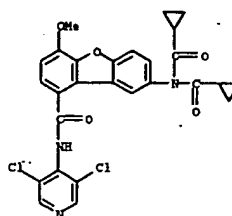


RN 778576-45-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-((cyclopropylcarbonyl)amino)-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

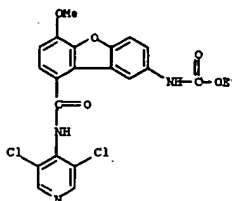


RN 778576-46-8 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-((bis(cyclopropylcarbonyl)amino)-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

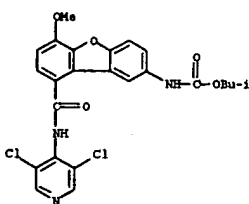


RN 778576-47-9 CAPLUS
 CN Carbanic acid, [9-(((3,5-dichloro-4-pyridinyl)amino)carbonyl)-6-methoxy-2-dibenzofuranyl]-, ethyl ester (9CI) (CA INDEX NAME)

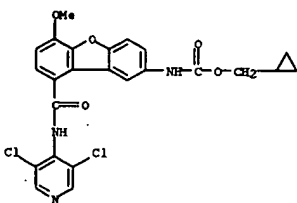


RN 778576-48-0 CAPLUS
 CN Carbanic acid, [9-(((3,5-dichloro-4-pyridinyl)amino)carbonyl)-6-methoxy-2-dibenzofuranyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)

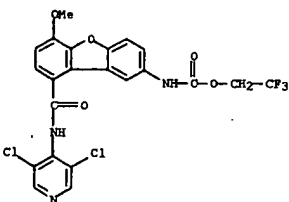
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-50-4 CAPLUS
 CN Carbanic acid, [9-(((3,5-dichloro-4-pyridinyl)amino)carbonyl)-6-methoxy-2-dibenzofuranyl]-, cyclopropylmethyl ester (9CI) (CA INDEX NAME)

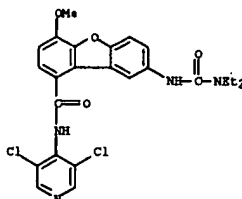


RN 778576-51-5 CAPLUS
 CN Carbanic acid, [9-(((3,5-dichloro-4-pyridinyl)amino)carbonyl)-6-methoxy-2-dibenzofuranyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)

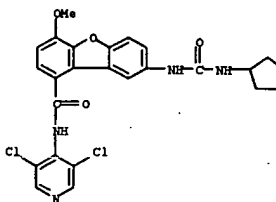


L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-52-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-(((diethylamino)carbonyl)amino)-4-methoxy- (9CI) (CA INDEX NAME)

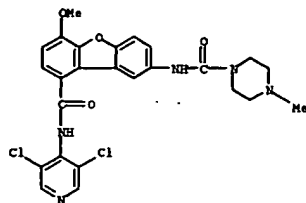


RN 778576-53-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(((cyclopentylamino)carbonyl)amino)-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)



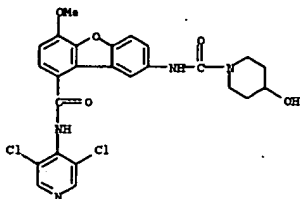
RN 778576-55-9 CAPLUS
 CN 1-Piperazinecarboxamide, N-[9-(((3,5-dichloro-4-pyridinyl)amino)carbonyl)-6-methoxy-2-dibenzofuranyl]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



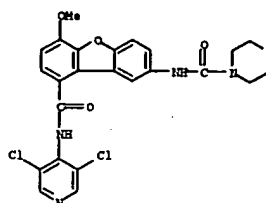
● HCl

RN 778576-56-0 CAPLUS
CN 1-Piperidinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-4-hydroxy- (9CI) (CA INDEX NAME)

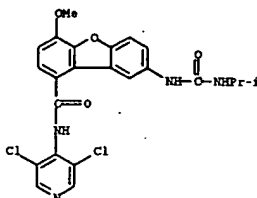


RN 778576-57-1 CAPLUS
CN 4-Morpholinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

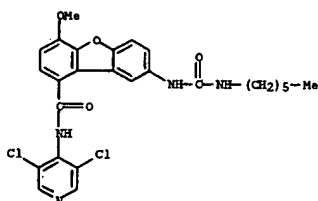


RN 778576-58-2 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[[[(1-methylethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

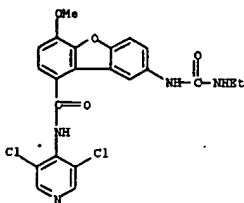


RN 778576-59-3 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[[[(1-methylethyl)amino]carbonyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)

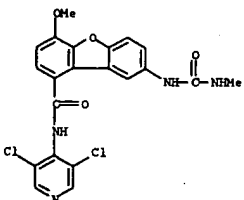
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-60-6 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[[[(1-methylethyl)amino]carbonyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)

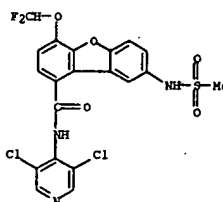


RN 778576-61-7 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[[[(1-methylethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)



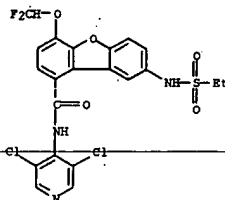
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-63-9 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[[[(1-methylethyl)amino]carbonyl]amino]-, monosodium salt (9CI) (CA INDEX NAME)



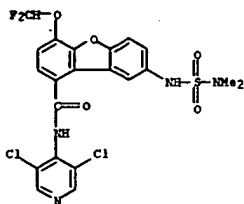
● Na

RN 778576-64-0 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[[[(1-methylethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

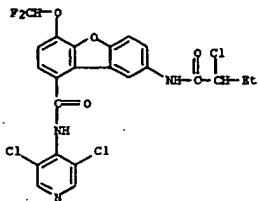


RN 778576-65-1 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[[[(1-methylethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

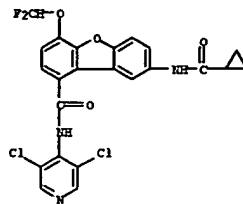


RN 778576-67-3 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-((2-chloro-1-oxobutyl)amino)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)

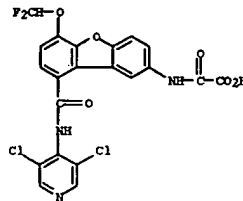


RN 778576-68-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-((cyclopropylcarbonyl)amino)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



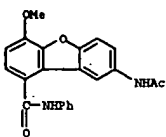
RN 778576-71-9 CAPLUS
 CN Acetic acid, [[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-(difluoromethoxy)-2-dibenzofuranyl]amino]oxo-, disodium salt (9CI) (CA INDEX NAME)



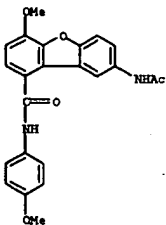
● 2 Na

RN 778576-73-1 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-phenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

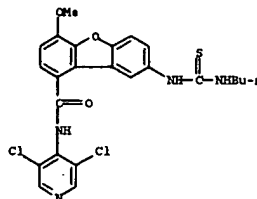


RN 778576-77-5 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

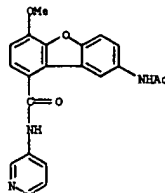


RN 778576-83-3 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[[[(ethylamino)thioxomethyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)

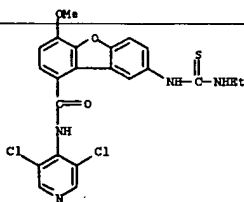
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-85-5 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-3-pyridinyl- (9CI) (CA INDEX NAME)



RN 778576-87-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

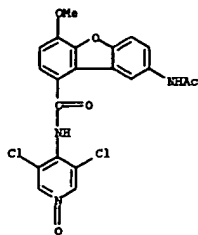


RN 778576-84-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-[[[(butylamino)thioxomethyl]amino]-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

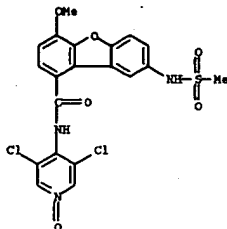
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11/27/05

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

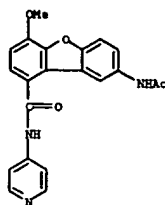


RN 778576-89-8 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-((3,5-dichloro-4-oxido-4-pyridinyl)-4-methoxy-8-((methylsulfonyl)amino))- (9CI) (CA INDEX NAME)

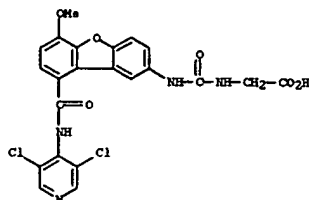


RN 778576-89-9 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-(4-pyridinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

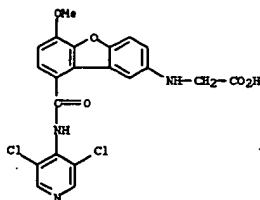


RN 778576-91-3 CAPLUS
 CN Glycine, N-[[[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

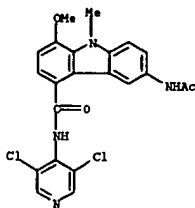


RN 778576-93-5 CAPLUS
 CN Glycine, N-[[[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

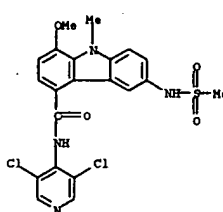


RN 778576-94-6 CAPLUS
 CN 9H-Carbazole-4-carboxamide, 6-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl- (9CI) (CA INDEX NAME)

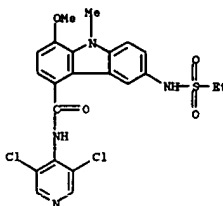


RN 778576-95-7 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-[[methylsulfonyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

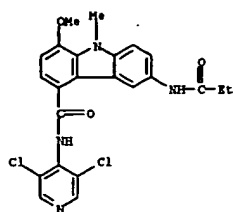


RN 778576-96-8 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-6-[[ethylsulfonyl]amino]-1-methoxy-9-methyl- (9CI) (CA INDEX NAME)

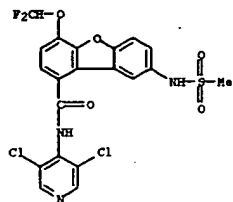


RN 778576-97-9 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-[[1-oxopropyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



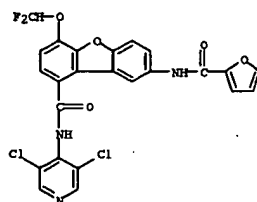
RN 778576-98-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(methylsulfonyl)amino]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

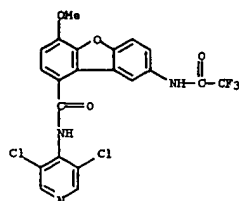
RN 778576-99-1 CAPLUS
 CN 1-Dibenzothiophenecarboxamide, 8-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-4-methoxy-, disodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



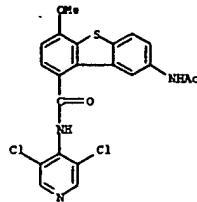
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RN 778581-69-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[(trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)



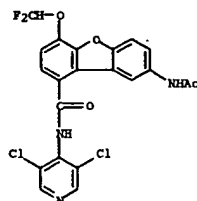
IT 685874-79-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-nitrodibenzo[b,d]furan-1-carboxamide 685874-81-1P, N-(Pyridin-3-yl)-4-methoxy-8-nitrodibenzo[b,d]furan-1-carboxamide 685874-98-0P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-aminodibenzo[b,d]furan-1-carboxamide 685875-02-9P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-nitrodibenzo[b,d]furan-1-carboxamide 685875-03-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-aminodibenzo[b,d]furan-1-carboxamide 778576-28-6P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-amino-9H-carbazole-4-carboxamide 778576-33-3P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-nitro-9H-carbazole-4-carboxamide 778576-74-2P, N-Phenyl-4-methoxy-8-nitrodibenzo[b,d]furan-1-carboxamide 778576-76-4P, N-Phenyl-4-methoxy-8-aminodibenzo[b,d]furan-1-carboxamide 778576-78-6P, N-(4-Methoxyphenyl)-4-methoxy-8-nitrodibenzo[b,d]furan-1-carboxamide 778576-79-7P, N-(4-Methoxyphenyl)-4-methoxy-8-aminodibenzo[b,d]furan-1-carboxamide

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● 2 Na

RN 778577-06-3 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-, monosodium salt (9CI) (CA INDEX NAME)



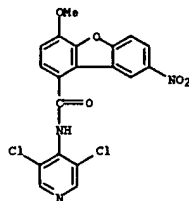
● Na

RN 778577-07-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(2-furanylcarbonyl)amino]-, monosodium salt (9CI) (CA INDEX NAME)

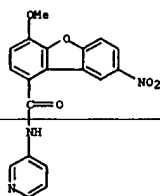
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

778576-86-6P, N-(Pyridin-3-yl)-4-methoxy-8-aminodibenzo[b,d]furan-1-carboxamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Intermediate; prepn. of tricyclic heterocycles as PDE4 inhibitors for treatment of immune and inflammatory disorders and insulin resistant diabetes)

RN 685874-79-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-nitro- (9CI) (CA INDEX NAME)

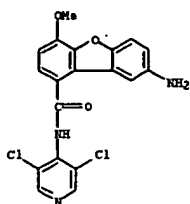


RN 685874-81-1 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-8-nitro-N-3-pyridinyl- (9CI) (CA INDEX NAME)

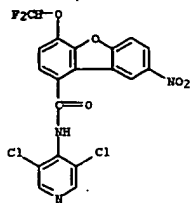


RN 685874-98-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

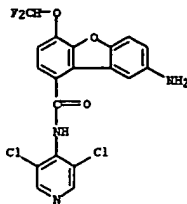


RN 685875-02-9 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-nitro- (9CI) (CA INDEX NAME)

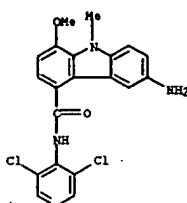


RN 685875-03-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

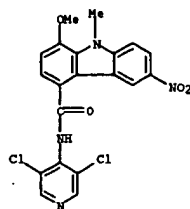


RN 778576-28-6 CAPLUS
 CN 5H-Carbazole-4-carboxamide, 6-amino-N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl- (9CI) (CA INDEX NAME)

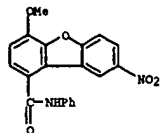


RN 778576-33-3 CAPLUS
 CN 5H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

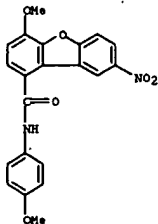


RN 778576-74-2 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-8-nitro-N-phenyl- (9CI) (CA INDEX NAME)

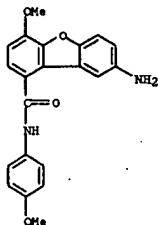


RN 778576-76-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-4-methoxy-N-phenyl- (9CI) (CA INDEX NAME)

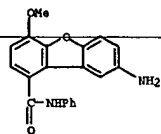
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-79-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-4-methoxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 778576-86-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-4-methoxy-N-3-pyridinyl- (9CI) (CA INDEX NAME)

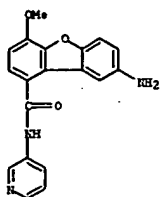


RN 778576-78-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-N-(4-methoxyphenyl)-8-nitro- (9CI) (CA INDEX NAME)

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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



IT 836627-26-0P

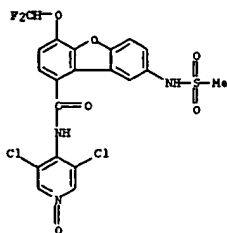
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

of (preparation of tricyclic heterocycles as PDE4 inhibitors for treatment

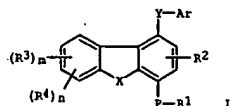
of immune and inflammatory disorders and insulin resistant diabetes)

RN 836627-26-0 CAPLUS

CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)-8-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Title heterocyclic tricycles I [wherein R1-R3, R5, R6, Ra = independently H, (un)substituted (cyclo)alkyl, (cyclo)alkenyl, alkynyl, (hetero)aryl, heterocyclyl(alkyl), etc.; R4 = NR5R6, heterocyclyl; Ar = (un)substituted aryl(alkyl), heterocyclyl, heteroaryl; X = O, S(=O)-2, NRa; Y = COR7, NR7S(=O)-2, S(=O)-2NR7, NR7CO; R7 = H, CH3, ORa, (un)substituted alkyl, aryl, heterocyclyl; F = O, S; m = 0-3; n = 1-4; and tautomers, regioisomers, stereoisomers, enantiomers, diastereomers, polymorphs, N-oxides, pharmaceutically acceptable salts, solvates, and compns. thereof] were prepared as phosphodiesterase type 4 (PDE4) inhibitors. For example, N-(3,5-dichloropyridin-4-yl)-4-methoxy-8-aminodibenzo[b,f]furan-1-carboxamide (prepared in six steps from isovanillin, 4-fluoronitrobenzene, and 4-amino-3,5-dichloropyridine) was coupled with methanesulfonyl chloride in THF and pyridine to give the sulfonamide II. The latter inhibited the PDE4-induced conversion of [3H] cAMP to the corresponding [3H] 5'-AMP with IC50 of 0.5058 nM. Thus, I and their pharmaceutical compns. are useful for the treatment of immune disorders, inflammatory conditions, allergic conditions, CNS diseases, and insulin resistant diabetes (no data).

IT 778576-34-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(methylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-37-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-43-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(hydroxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-42-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(ethoxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-49-1P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(phenoxycarbonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-54-8P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[(N-methylpiperidin-4-yl)carbonyl]amino]dibenzo[b,d]furan-1-carboxamide 778576-62-8P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-[(methylsulfonyl)amino]dibenzo[b,d]furan-1-carboxamide 778576-66-2P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-69-5P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-[(ethoxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:874393 CAPLUS

DOCUMENT NUMBER: 141:366121

TITLE: Preparation of dibenzo[b,f]furan-1-carboxamides, SE-carbazole-4-carboxamides, and dibenzo[b,d]thiophene-4-carboxamides as PDE4 inhibitors for the treatment of inflammatory and allergic disorders

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004089940	A1	20041021	WO 2004-1B355	20040211
<p>V: AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>W: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
US 2005027129	A1	20050203	US 2004-821642	20040409
PRIORITY APPL. INFO.:				
IN 2003-MU363 A 20030411				
US 2003-519862P P 20031113				
WO 2004-1B355 A2 20040211				

OTHER SOURCE(S):

GI

CASREACT 141:366121; MARPAT 141:366121

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

778576-70-8P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-

[(hydroxycarbonylcarbonyl)amino]dibenzo[b,d]furan-1-carboxamide

778576-72-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-

[[[(fur-2-yl)carbonyl]amino]dibenzo[b,d]furan-1-carboxamide

778576-90-2P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-[[[(2-

ethoxy-2-oxoethyl)amino]carbonyl]amino]dibenzo[b,d]furan-1-carboxamide

778576-92-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-(2-ethoxy-2-

oxoethylamino)dibenzo[b,d]furan-1-carboxamide

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)

(PDE4 inhibitor; prepa. of tricyclic heterocycles as PDE4 inhibitors

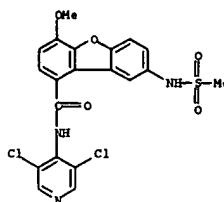
for treatment of immune and inflammatory disorders and insulin

resistant diabetes)

RN 778576-34-4 CAPLUS

CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-

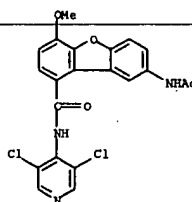
[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)



RN 778576-37-7 CAPLUS

CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-4-

methoxy- (9CI) (CA INDEX NAME)



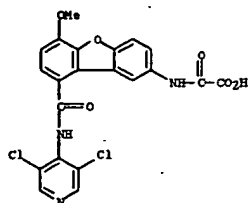
RN 778576-41-3 CAPLUS

CN Acetic acid, [[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]oxo- (9CI) (CA INDEX NAME)

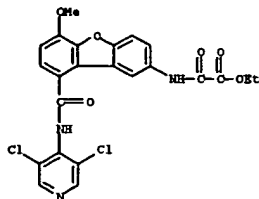
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

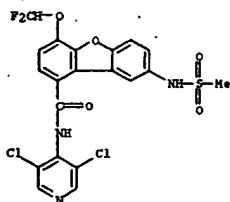


RN 778576-42-4 CAPLUS
 CN Acetic acid, [[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]oxo-, ethyl ester (9CI) (CA INDEX NAME)

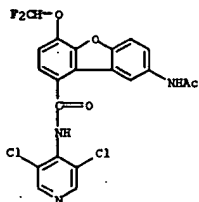


RN 778576-49-1 CAPLUS
 CN Carbamic acid, [9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, phenyl ester (9CI) (CA INDEX NAME)

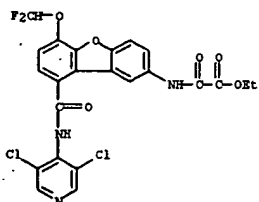
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



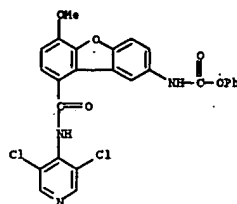
RN 778576-66-2 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)



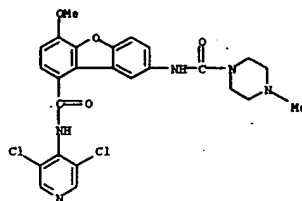
RN 778576-69-5 CAPLUS
 CN Acetic acid, [[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-(difluoromethoxy)-2-dibenzofuranyl]amino]oxo-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



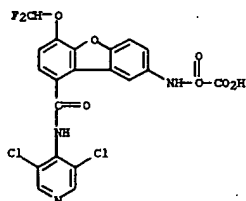
RN 778576-54-8 CAPLUS
 CN 1-Piperazinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-4-methyl- (9CI) (CA INDEX NAME)



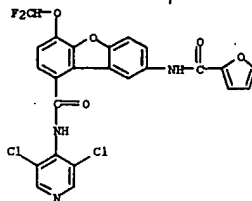
RN 778576-62-8 CAPLUS
 CN 1-Piperazinecarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-70-8 CAPLUS
 CN Acetic acid, [[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-(difluoromethoxy)-2-dibenzofuranyl]amino]oxo- (9CI) (CA INDEX NAME)

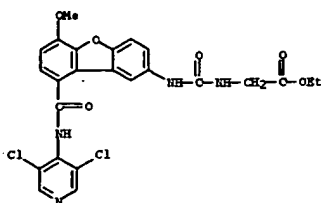


RN 778576-72-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(2-furanylcarbonyl)amino]- (9CI) (CA INDEX NAME)



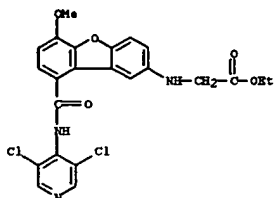
RN 778576-90-2 CAPLUS
 CN Glycine, N-[[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-92-4 CAPLUS

CN Glycine, N-((3,5-dichloro-4-pyridinyl)amino)carbamoyl-6-methoxy-2-dibenzofuranyl-, ethyl ester (9CI) (CA INDEX NAME)



IT 778576-35-5P 778576-36-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((ethylsulfonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-38-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((3-chloropropyl)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-39-9P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((ethylcarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-40-2P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((tert-butylcarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-43-5P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((hydroxycarbonyl)amino)dibenzo[b,d]furan-1-carboxamide sodium salt 778576-44-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((fur-2-yl)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-45-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((cyclopropylcarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-46-8P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((bis(cyclopropylcarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-47-9P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((ethoxycarbonyl)amino)dibenzo[b,d]furan-1-carboxamide

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

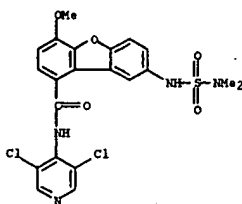
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(PDE4 inhibitors; prepn. of tricyclic heterocycles as PDE4 inhibitors for treatment of immune and inflammatory disorders and insulin resistant diabetes)

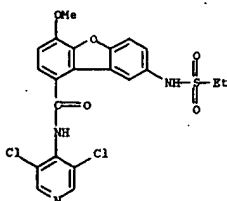
RN 778576-35-5 CAPLUS

CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-((dimethylamino)sulfonyl)amino-4-methoxy- (9CI) (CA INDEX NAME)



RN 778576-36-6 CAPLUS

CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-((ethylsulfonyl)amino)-4-methoxy- (9CI) (CA INDEX NAME)



RN 778576-38-8 CAPLUS

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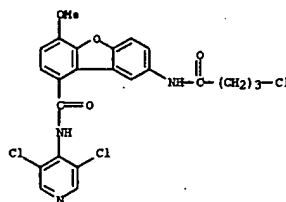
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

778576-48-0P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((isobutyryloxy)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-50-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((cyclopropylmethoxycarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-51-5P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-(((trifluoromethyl)methoxy)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-52-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((diethylamino)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-53-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((cyclopentylaminocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-55-9P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((N-methylpiperazin-4-yl)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide hydrochloride 778576-56-0P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-(((4-hydroxypiperidin-1-yl)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-57-1P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((morpholin-4-yl)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-58-2P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((isopropylaminocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-59-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((hexylaminocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-60-6P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((ethylaminocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-61-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((methylaminocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-63-9P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-((methylsulfonyl)amino)dibenzo[b,d]furan-1-carboxamide sodium salt 778576-64-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-((ethylsulfonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-65-1P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-((dimethylamino)sulfonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-67-3P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-(((1-chloropropyl)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-68-4P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-((cyclopropylcarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-71-9P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-((hydroxycarbonyl)amino)dibenzo[b,d]furan-1-carboxamide disodium salt 778576-73-1P, N-Phenyl-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-77-5P, N-(4-Methoxyphenyl)-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-83-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((ethylamino)thiocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-84-4P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-((butylamino)thiocarbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-85-5P, N-(Pyridin-3-yl)-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-87-7P 778576-88-8P 778576-89-9P, N-(Pyridin-4-yl)-4-methoxy-8-acetamidodibenzo[b,d]furan-1-carboxamide 778576-91-3P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-(((2-hydroxy-2-oxoethyl)amino)carbonyl)amino)dibenzo[b,d]furan-1-carboxamide 778576-93-5P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-(2-hydroxy-2-oxoethylamino)dibenzo[b,d]furan-1-carboxamide 778576-94-6P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-acetamido-9H-carbazole-4-carboxamide 778576-95-7P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-((methylsulfonyl)amino)-9H-carbazole-4-carboxamide 778576-96-8P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-

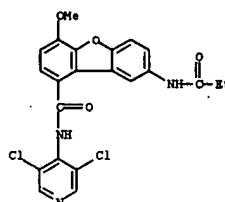
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

1-Dibenzofurancarboxamide, 8-((4-chloro-1-oxobutyl)amino)-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)



RN 778576-39-9 CAPLUS

CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-(((1-oxopropyl)amino)- (9CI) (CA INDEX NAME)



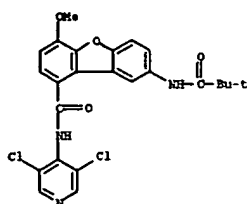
RN 778576-40-2 CAPLUS

1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-(((2,2-dimethyl-1-oxopropyl)amino)-4-methoxy- (9CI) (CA INDEX NAME)

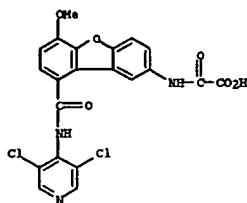
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



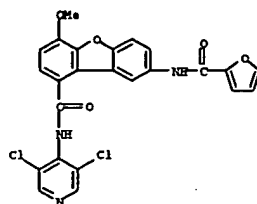
RN 778576-43-5 CAPLUS
 CN Acetic acid, [[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]oxo-, monosodium salt (9CI) (CA INDEX NAME)



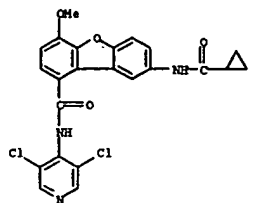
● Na

RN 778576-44-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[(2-furanylcarbonyl)amino]-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

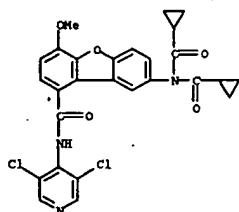


RN 778576-45-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-[(cyclopropylcarbonyl)amino]-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

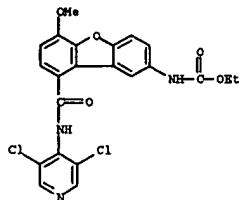


RN 778576-46-8 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-[[bis(cyclopropylcarbonyl)amino]-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

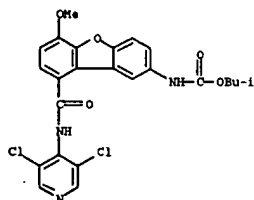
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-47-9 CAPLUS
 CN Carbamic acid, [9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, ethyl ester (9CI) (CA INDEX NAME)

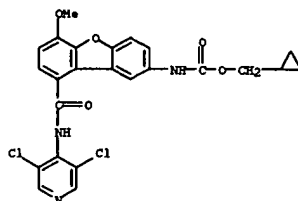


RN 778576-48-0 CAPLUS
 CN Carbamic acid, [9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)

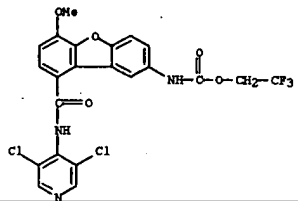


L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-50-4 CAPLUS
 CN Carbamic acid, [9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, cyclopropylmethyl ester (9CI) (CA INDEX NAME)

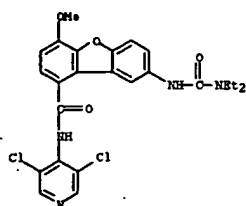


RN 778576-51-5 CAPLUS
 CN Carbamic acid, [9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)

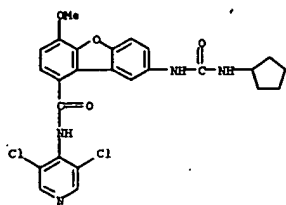


RN 778576-52-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[[[diethylamino]carbonyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

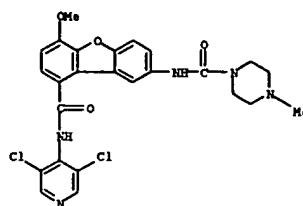


RN 778576-53-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]amino]-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)



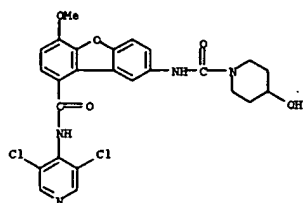
RN 778576-55-9 CAPLUS
 CN 1-Piperazinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



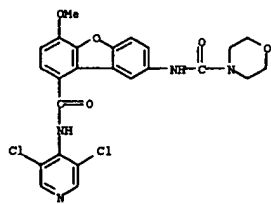
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RN 778576-56-0 CAPLUS
 CN 1-Piperidinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]-4-hydroxy- (9CI) (CA INDEX NAME)

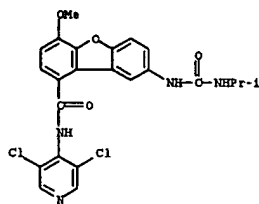


RN 778576-57-1 CAPLUS
 CN 4-Morpholinecarboxamide, N-[9-[[[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-methoxy-2-dibenzofuranyl]- (9CI) (CA INDEX NAME)

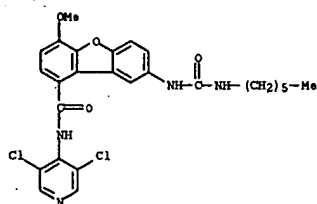
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-58-2 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[[[(1-methylethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

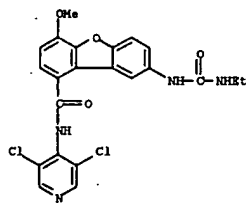


RN 778576-59-3 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[[[(hexylamino)carbonyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)

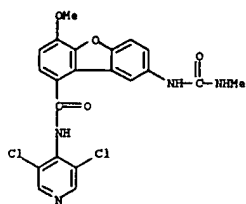


L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-60-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-8-[[[(ethylamino)carbonyl]amino]-4-methoxy- (9CI) (CA INDEX NAME)



RN 778576-61-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[[[(methylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

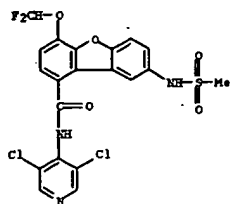


RN 778576-63-9 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[[[(methylsulfonyl)amino]-, monosodium salt (9CI) (CA INDEX NAME)

10821642

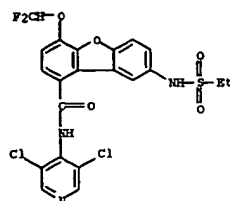
11/27/05

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



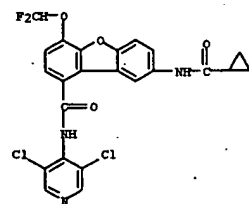
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RN 778576-64-0 CAPLUS
CN 1-Dibenzofurancarboxamide, N-[(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)]-8-[(ethylsulfonyl)amino]- (9CI) (CA INDEX NAME)

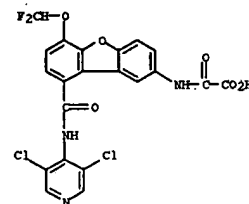


RN 778576-65-1 CAPLUS
CN 1-Dibenzofurancarboxamide, N-[(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)]-8-[(dimethylamino)sulfonyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

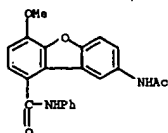


RN 778576-71-9 CAPLUS
CN Acetic acid, [[9-[(3,5-dichloro-4-pyridinyl)amino]carbonyl]-6-(difluoromethoxy)-2-dibenzofuranyl]amino]oxo-, disodium salt (9CI) (CA INDEX NAME)

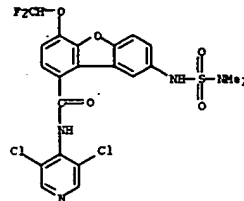


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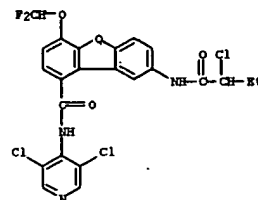
RN 778576-73-1 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



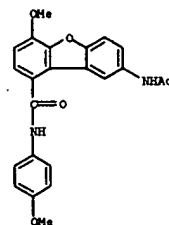
RN 778576-67-3 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-[(2-chloro-1-oxobutyl)amino]-N-[(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)]- (9CI) (CA INDEX NAME)



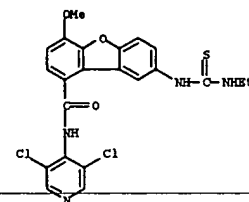
RN 778576-68-4 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-[(cyclopropylcarbonyl)amino]-N-[(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-77-5 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

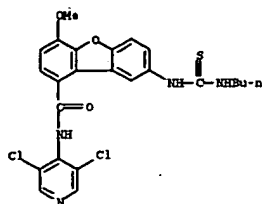


RN 778576-83-3 CAPLUS
CN 1-Dibenzofurancarboxamide, N-[(3,5-dichloro-4-pyridinyl)-8-[[[ethylamino]thioxomethyl]amino]-4-methoxy]- (9CI) (CA INDEX NAME)

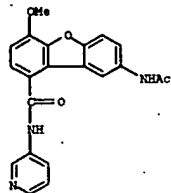


RN 778576-84-4 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-[[[butylamino]thioxomethyl]amino]-N-[(3,5-dichloro-4-pyridinyl)-4-methoxy]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

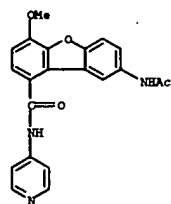


RN 778576-85-5 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-3-pyridinyl- (9CI)
 (CA INDEX NAME)

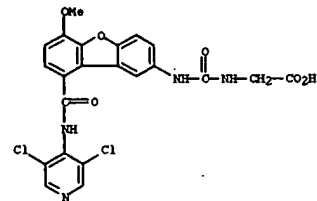


RN 778576-87-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

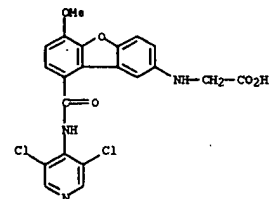
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



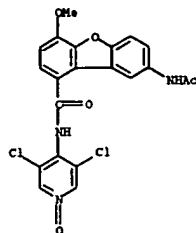
RN 778576-91-3 CAPLUS
 CN Glycine, N-[[[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



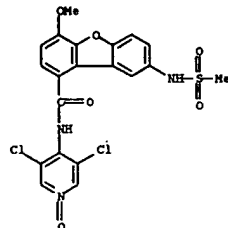
RN 778576-93-5 CAPLUS
 CN Glycine, N-[[[9-[[[3,5-dichloro-4-pyridinyl]amino]carbonyl]-6-methoxy-2-dibenzofuranyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



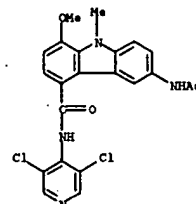
RN 778576-88-8 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-methoxy-8-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)



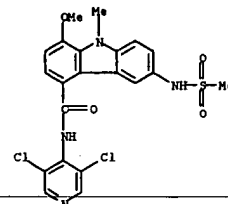
RN 778576-89-9 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-(acetylamino)-4-methoxy-N-4-pyridinyl- (9CI)
 (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 778576-94-6 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

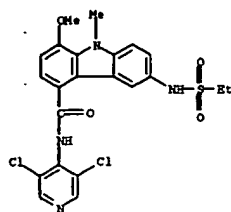


RN 778576-95-7 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

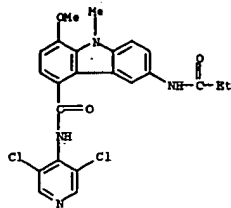


RN 778576-96-8 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-6-[(ethylsulfonyl)amino]-1-methoxy-9-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

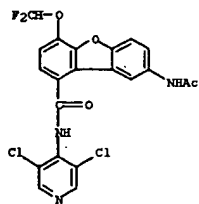


RN 778576-97-9 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-[(1-oxopropyl)amino]- (9CI) (CA INDEX NAME)



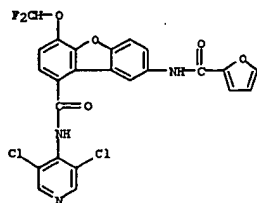
RN 778576-98-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(methylsulfonyl)amino]-, disodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● Na

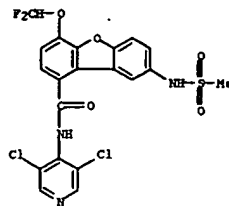
RN 778577-07-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-[(2-furanylcarbonyl)amino]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

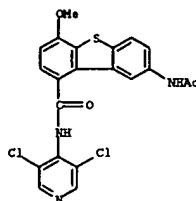
RN 778581-69-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-[(trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● 2 Na

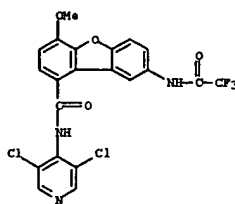
RN 778576-99-1 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-nitro-9H-carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-nitro-9H-carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-nitro-9H-carbazole-4-carboxamide (9CI) (CA INDEX NAME)



● 2 Na

RN 778577-06-3 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-, monosodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



IT 685874-79-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-nitrodibenzofuran-1-carboxamide 685874-81-1P, N-(Pyridin-3-yl)-4-methoxy-8-nitrodibenzofuran-1-carboxamide 685874-98-0P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-aminodibenzofuran-1-carboxamide 685875-02-9P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-nitrodibenzofuran-1-carboxamide 685875-03-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-aminodibenzofuran-1-carboxamide 778576-28-6P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-amino-9H-carbazole-4-carboxamide 778576-33-3P, N-(3,5-Dichloropyridin-4-yl)-1-methoxy-9-methyl-6-nitro-9H-carbazole-4-carboxamide 778576-74-2P, N-Phenyl-4-methoxy-8-nitrodibenzofuran-1-carboxamide 778576-76-4P, N-Phenyl-4-methoxy-8-aminodibenzofuran-1-carboxamide 778576-78-6P, N-(4-Methoxyphenyl)-4-methoxy-8-nitrodibenzofuran-1-carboxamide 778576-79-7P, N-(4-Methoxyphenyl)-4-methoxy-8-aminodibenzofuran-1-carboxamide 778576-86-6P, N-(Pyridin-3-yl)-4-methoxy-8-aminodibenzofuran-1-carboxamide

AL; RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Intermediate; preparation of tricyclic heterocycles as PDE4 inhibitors

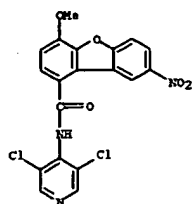
for treatment of immune and inflammatory disorders and insulin resistant diabetes)

RN 685874-79-7 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-nitro- (9CI) (CA INDEX NAME)

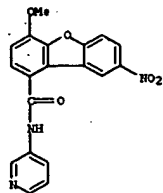
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

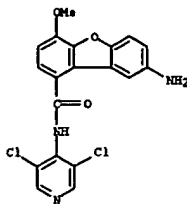


RN 685874-81-1 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-8-nitro-N-3-pyridinyl- (9CI) (CA INDEX NAME)

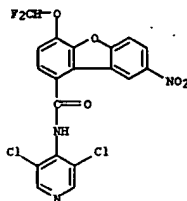


RN 685874-98-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

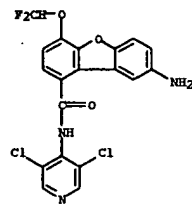


RN 685875-02-9 CAPLUS
 CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-nitro- (9CI) (CA INDEX NAME)

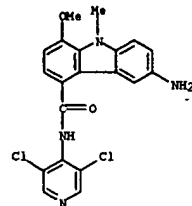


RN 685875-03-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

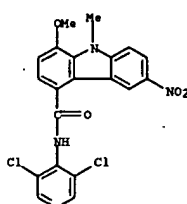


RN 778576-28-6 CAPLUS
 CN 9H-Carbazole-4-carboxamide, 6-amino-N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl- (9CI) (CA INDEX NAME)

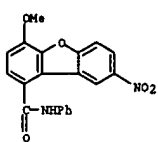


RN 778576-33-3 CAPLUS
 CN 9H-Carbazole-4-carboxamide, N-(3,5-dichloro-4-pyridinyl)-1-methoxy-9-methyl-6-nitro- (9CI) (CA INDEX NAME)

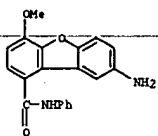
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 778576-74-2 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-8-nitro-N-phenyl- (9CI) (CA INDEX NAME)



RN 778576-76-4 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-4-methoxy-N-phenyl- (9CI) (CA INDEX NAME)

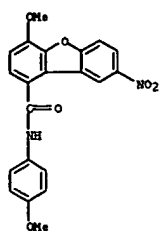


RN 778576-78-6 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-N-(4-methoxyphenyl)-8-nitro- (9CI) (CA INDEX NAME)

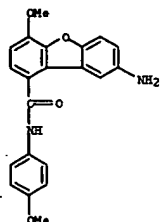
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

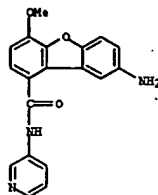


RN 778576-79-7 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-amino-4-methoxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 778576-86-6 CAPLUS
CN 1-Dibenzofurancarboxamide, 8-amino-4-methoxy-N-3-pyridinyl- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:370918 CAPLUS
DOCUMENT NUMBER: 140:391192
TITLE: Preparation of dibenzofuran/dibenzothiophene derivatives useful for the treatment of inflammatory and allergic disorders
INVENTOR(S): Balasubramanian, Gopalan; Gharat, Laxmikant Atmaran; Lakshavala, Aftab Dawoodbhai; Anupindi, Raghu Ram
PATENT ASSIGNEE(S): Glenmark Pharmaceuticals Ltd., India
SOURCE: PCT Int. Appl., 254 pp.
CODEN: FIKKX2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037805	A1	20040506	WO 2003-1B4442	20031008
<p>VI: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, GB, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PG, PH, PL, PT, RU, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p> <p>CA 2503015 AA 20040506 CA 2003-2503015 20031008 EP 1554262 A1 20050720 EP 2003-751096 20031008 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, SK, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK BR 2003014721 A 20050802 BR 2003-14721 20031008 PRIORITY APPL. INFO.: IN 2002-140822 A 20021025 WO 2003-1B4442 W 20031008</p>				
OTHER SOURCE(S): MARPAT 140:391192				
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L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

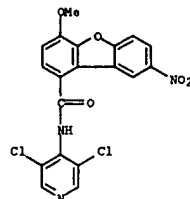
13 Title compds. I (R1-3 = H, alk(en/yn)yl, cycloalkyl, etc.; P = O, S; n = 0-4; Ar = (un)substituted aryl, etc.; Y = carboxamido, aminosulfonyl, etc.) are prepared. For instance, 4-methoxydibenzofuran-1-carboxylic acid (preparation given) is converted to the corresponding acid chloride (PNH, SOCl₂, reflux, 4 h) and treated with 4-amino-3,5-dichloropyridine (DMF/THF, NaH, -10°) to give II. II has IC₅₀ = 0.8 nM for PDE4. I are useful for the treatment of inflammatory conditions, diseases of the central nervous and insulin resistant diabetes.

II 685874-79-7P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-nitrodibenzofuran-1-carboxamide 685875-02-9P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-nitrodibenzofuran-1-carboxamide 685876-03-0P, N-(3,5-Dichloropyridin-4-yl)-4-difluoromethoxy-8-aminodibenzofuran-1-carboxamide

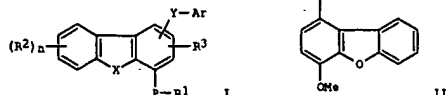
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of dibenzofuran/dibenzothiophene derivs. useful for treatment of inflammatory and allergic disorders)

RN 685874-79-7 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-8-nitro- (9CI) (CA INDEX NAME)



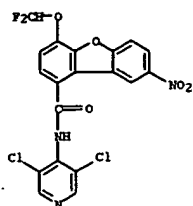
RN 685875-02-9 CAPLUS
CN 1-Dibenzofurancarboxamide, N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-8-nitro- (9CI) (CA INDEX NAME)



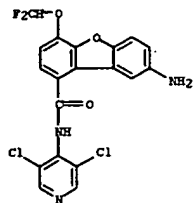
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L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

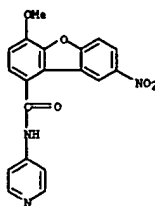


RN 685875-03-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (9CI) (CA INDEX NAME)

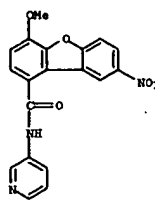


IT 685874-80-0P, N-(Pyridin-4-yl)-4-methoxy-8-nitrodibenzofuran-1-carboxamide 685874-81-1P, N-(Pyridin-3-yl)-4-methoxy-8-nitrodibenzofuran-1-carboxamide 685874-98-0P, N-(3,5-Dichloropyridin-4-yl)-4-methoxy-8-aminodibenzofuran-1-carboxamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of dibenzofuran/dibenzothiophene derivs. useful for treatment of inflammatory and allergic disorders)
 RN 685874-80-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-8-nitro-N-4-pyridinyl- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

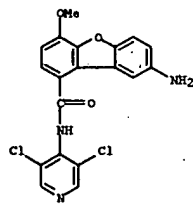


RN 685874-81-1 CAPLUS
 CN 1-Dibenzofurancarboxamide, 4-methoxy-8-nitro-N-3-pyridinyl- (9CI) (CA INDEX NAME)



RN 685874-98-0 CAPLUS
 CN 1-Dibenzofurancarboxamide, 8-amino-N-(3,5-dichloro-4-pyridinyl)-4-methoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.52

179.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.19

-2.19

STN INTERNATIONAL LOGOFF AT 11:23:18 ON 29 NOV 2005